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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			pplication No. Applicant(s)						
Office Action Summary			10/724,161		LEE ET AL.				
			Examiner		Art Unit				
		J	JIVKA RABOVIA	ANSKI	2623				
Period fo	The MAILING DATE of this commun or Reply	nication appea	ars on the cove	r sheet with the c	orrespondence ad	ddress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLUTION IN INSIGN SOLU	MAILING DAT s of 37 CFR 1.136(a munication. tatutory period will a y will, by statute, ca	E OF THIS CO (a). In no event, how apply and will expire ause the application	OMMUNICATION vever, may a reply be time. SIX (6) MONTHS from to become ABANDONEI	J. nely filed the mailing date of this of (35 U.S.C. § 133).	•			
Status									
1) 又	Responsive to communication(s) file	ed on <i>21 May</i>	/ 2008						
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>21 May 2008</u> . This action is FINAL . 2b) This action is non-final.								
3)		<i>7</i> —			secution as to the	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	Claim(s) <u>1-24</u> is/are pending in the	application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
	Claim(s) <u>1-24</u> is/are rejected.								
·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restri	ction and/or e	election require	ement.					
	on Papers		·						
	•	o Evaminar							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
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	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	nte				

DETAILED ACTION

This office action is in response to applicant's response filed on May 14th 2008.

Status of Claims

Claims 1 - 24 are pending in the Application.

Response to Arguments

Applicant's arguments, filed May 14th 2008, with respect to the rejection(s) of claim(s) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of different references.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claims 3, 11 and 16 contains information that is not described in the specification, For example, "program management information" and "subscriber management information".

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Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Regarding claims 21, 22 and 23, although the claims recite a statutory category of "method"; it appears the method prescribes the steps of "receiving", "separating", "decoding", "receiving" and "demultiplexing" (claim 21); "determining", "driving" (claim 22) and "generating" "supplying" (claim 24) which do not result in a physical transformation nor they produce a tangible result.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 24 are rejected under 35 U.S.C. 102(b) based upon a public use or sale of the invention and being anticipated by Leporini, David US 20030110382 A1 (Leporini hereinafter).

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Regarding claim 1, Leporini teaches:

A hybrid digital broadcasting (the hybrid fiber coax (HFC) network [0179]) receiver for reproducing digital multimedia data, comprising:

a broadcast receiving module comprising (Fig. 4/ receiver/decoder 2000):

a receiving section for receiving and demodulating a digital broadcasting data stream which includes a multiplexed and transmitted plurality of compressively encoded and scrambled programs (the term "receiver/decoder" as used herein may connote a receiver for receiving either encoded signal – [0003]; Fig. 4/ 2016, 2018, 2012 and 2014);

a first demultiplexer for demultiplexing said demodulated digital broadcasting data stream, and selecting and extracting digital broadcasting data corresponding to a program selected by a user (Fig. 2000/ 2010 - demultiplexer for demultiplexing the demodulated broadcasting data stream and extracting the data corresponding to remote control selection – Fig. 2000/2080);

a conditional access section for detecting conditional access information and decrypting said selected digital broadcasting data using said detected information; and a decoder module comprising (Fig. 4 and

10; the scrambled content are all delivered independently to a receiver/decoder, from a first party, second party and third party – Fig. 10/2052, [0263]; the scrambled data and encrypted control word are then received by the receiver/decoder having access to an equivalent to the exploitation key stored on a smartcard inserted in the receiver/decoder to decrypt the encrypted control word and thereafter descramble the transmitted data – [0176]):

a second demultiplexer for demultiplexing a digital multimedia data stream which includes a multiplexed plurality of compressively encoded digital multimedia data (Fig. 4/ 2010, 2100 – hard disc - on which audiovisual and other data can be stored – [0170]); and

a decoding section for decoding digital broadcasting data output from said broadcast receiving module and digital multimedia data output from said second demultiplexer – (the demux 2010 executes the operation of the first and the second demultiplexer- the decoding section is connected to the demux and 2004 that receives data from the hard disc - Fig. 4.

Regarding claim 2, Leporini teaches:

The hybrid digital broadcasting receiver according to claim 1, further comprising a smart card for receiving said conditional access information

and generating a scrambling key (Fig. 4 and [0069] - The processor is preferably adapted to utilize a master session key to generate an encryption/authentication key).

Regarding claim 3, Leporini teaches:

The hybrid digital broadcasting receiver according to claim 1, wherein said conditional access information comprises program management information and subscriber management information (The processor may be adapted to encapsulate an encrypted data object in a further encrypted data object, and furthermore may be adapted to encapsulate an Entitlement Control Message in a Content Management Message [0067]).

Regarding claim 4, Leporini teaches:

The hybrid digital broadcasting receiver according to claim 2, wherein said conditional access section receives said scrambling key from said smart card and decrypts said digital broadcasting data (The scrambled data and encrypted control word are then received by the receiver/decoder 2000 having access to an equivalent to the exploitation key stored on a smartcard inserted in the receiver/decoder to decrypt the encrypted control word and thereafter descramble the transmitted data [0176]).

Regarding claim 5, Leporini teaches:

The hybrid digital broadcasting receiver according to claim 1, further comprising a multimedia module for supplying said digital multimedia data stream to said second demultiplexer (multimedia includes a combination of text, audio, still images, animation, video – the source of multimedia is hard disc that contains video, audio and image data – Fig. 4/ 2100; audiovisual and other data can be stored [0171]).

Regarding claim 6, Leporini teaches:

The hybrid digital broadcasting receiver according to clam 1, wherein said digital multimedia data comprises audio data and video data (Fig. 4/ 2024 and 2026).

Regarding claim 7, Leporini teaches:

The hybrid digital broadcasting receiver according to claim 6, wherein said second demultiplexer separates said audio data and said video data from said digital multimedia data stream (The demux 2010 separates the received signal into two signals audio and video – 2024 and 2026).

Regarding claim 8, Leporini teaches:

The hybrid digital broadcasting receiver according to claim 1, wherein said broadcast receiving module and said decoder module are each formed

in a single integrated circuit (a decoder integral - functioning in combination with a physically separate receiver [0003]).

However, Leporini does not explicitly cite using a single integrated chip. It is old and well known in the art at the time of Applicant's invention to consolidate modules, such as receiving modules and decoder modules into a single integrated circuit for the predictable result of minimizing cost of energy to transfer data from a further distance to save money.

Regarding claim 9, Leporini teaches:

A hybrid digital broadcasting receiver for reproducing digital multimedia data, comprising:

a receiving section for receiving a digital broadcasting data stream which includes multiplexed and transmitted digital broadcasting data packets and conditional access information packets for a plurality of programs (a receiver 2000 – Fig. 3- multiplexer 1030 – receiving compressed signal from compressor 1010 and conditional access information from 1100 – [0180] - [0185]; Fig. 4/2000 for receiving "multiplexer/scrambler, where the scrambled content 1300 (CONTENT*) is generated and then transmitted to the receiver/decoder 2000" – [0263];

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a first demultiplexer for separating said conditional access information packets and digital broadcasting data packets for a program selected by a user from said received digital broadcasting data stream (The receiver/decoder 2000 *demultiplexes* the signals to obtain scrambled programs [0190];if a program is scrambled, the receiver/decoder extracts the corresponding ECM from the MPEG-2 stream and passes the ECM to the "daughter" smartcard of the end user. These slots into a housing in the receiver/decoder 2000. The daughter smartcard 5500 controls whether the end user has the right to decrypt the ECM and to access the program [0191])

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a conditional access section for detecting conditional access information from said conditional access information packets and decrypting said separated digital broadcasting data packets using said conditional access information (If the end user does have the rights, the ECM is decrypted and the control word extracted – [0191], [0198]);

a second demultiplexer for receiving a digital multimedia data stream which includes multiplexed compressively encoded audio packets and video packets, and separating said audio packets and said video packets

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from said digital multimedia data stream (Fig. 4/ 2000, 2010, 2026, 2028 and 2038, 2040); and

a decoding section for decoding digital broadcasting data packets output from said conditional access section and audio packets and video packets output from said second demultiplexer (Fig.4/2026 and 2028).

Regarding claim 10, see rejection in claim 2 above.

Regarding claim 11, see rejection in claim 3 above.

Regarding claim 12, see rejection in claim 4 above.

Regarding claim 13, see rejection in claim 5 above.

Regarding claim 14, see rejection in claim 8 above.

Regarding claim 15, Leporini teaches:

A device for processing digital broadcasting data, comprising:

a receiving section for receiving and demodulating a digital broadcasting data stream which includes multiplexed and transferred digital broadcasting data packets and conditional access information packets for a plurality of programs (see rejection in claim 9);

an error correcting section for correcting any error in said
demodulated digital broadcasting data stream (a bit error rate (BER) of a
tuner, a signal level, the number of accesses to a particular part of the

receiver/decoder software; [0048] where many FEC coders can generate a bit-error rate (BER) signal.

a demultiplexer for separating said conditional access information packets and digital broadcasting data packets for a program selected by a user from said demodulated digital broadcasting data stream (see rejection in claim 9); and

a conditional access section for detecting conditional access information from said conditional access information packets and decrypting said separated digital broadcasting data packets using said conditional access information (see rejection in claim 9).

Regarding claim 16, see rejection in claim 3 above.

Regarding claim 17, see rejection in claim 2 above.

Regarding claim 18, see rejection in claim 4 above.

Regarding claim 19, Leporini teaches:

The device according to claim 15, further comprising a decoder module interface for supplying said decrypted digital broadcasting data to said decoder module (receiver/decoders may include a decoder integral with the receiver for decoding the received signals, for example, in a "settop box", such as a decoder functioning in combination with a physically

separate receiver, or such a decoder [0003]; Fig. 2000 – a decoder (2026 and 2028) for receiving decrypted audiovisual data.

Regarding claim 20, Leporini teaches:

The device according to claim 15, wherein said device is formed in a single integrated circuit chip (a decoder integral - functioning in combination with a physically separate receiver [0003]).

Regarding claim 21, see rejection in claims 1 and 9 above.

Regarding claim 22, Leporini teaches:

The method according to claim 21, further comprising the steps of:

determining whether there is a request for receiving digital broadcasting from said user (The receiver/decoder is additionally adapted to receive inputs from an infra-red remote control 2080 in order to request a digital broadcasting program – [0198]); and

driving said broadcast receiving module and receiving said digital broadcasting data stream when said request is received - when a user select the program of interest with the remote control, then the receiver receives that program Fig. 4.

Regarding claim 23, see rejection in claim 3 above.

Regarding claim 24, Leporini teaches:

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The method according to claim 21, further comprising the steps of: supplying said conditional access information to a smart card from said broadcast receiving module (Fig. 3/1100, 5200 and 5500);

generating a scrambling key at said smart card using said conditional access information (generating an encryption/authentication key [0038], [0039]); and

supplying said scrambling key generated by said smart card to said broadcast receiving module to decrypt said separated digital broadcasting data (the conditional access system includes a Subscriber Authorization System (SAS). The SAS is connected to one or more Subscriber Management Systems (SMS), one SMS for each broadcast supplier – [0181]; the receiver/decoder is connected directly to the SAS Fig. 3, [0182]).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rakib, Selim Shlomo US 20040181811 A1 "Thin DOCSIS in-band management for interactive HFC service delivery".

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Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jivka Rabovianski whose telephone number is (571) 270-1845. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VIVEK SRIVASTAVA can be reached on (571) 272-7304. Customer Service can be reached at (571) 272-2600. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Jivka Rabovianski/

August 28, 2008

/Vivek Srivastava/

Supervisory Patent Examiner, Art Unit 2623